

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P254207

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-17-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-70-D-U-T2U-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO
COMPETITIVE OFFERINGS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5135.2 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

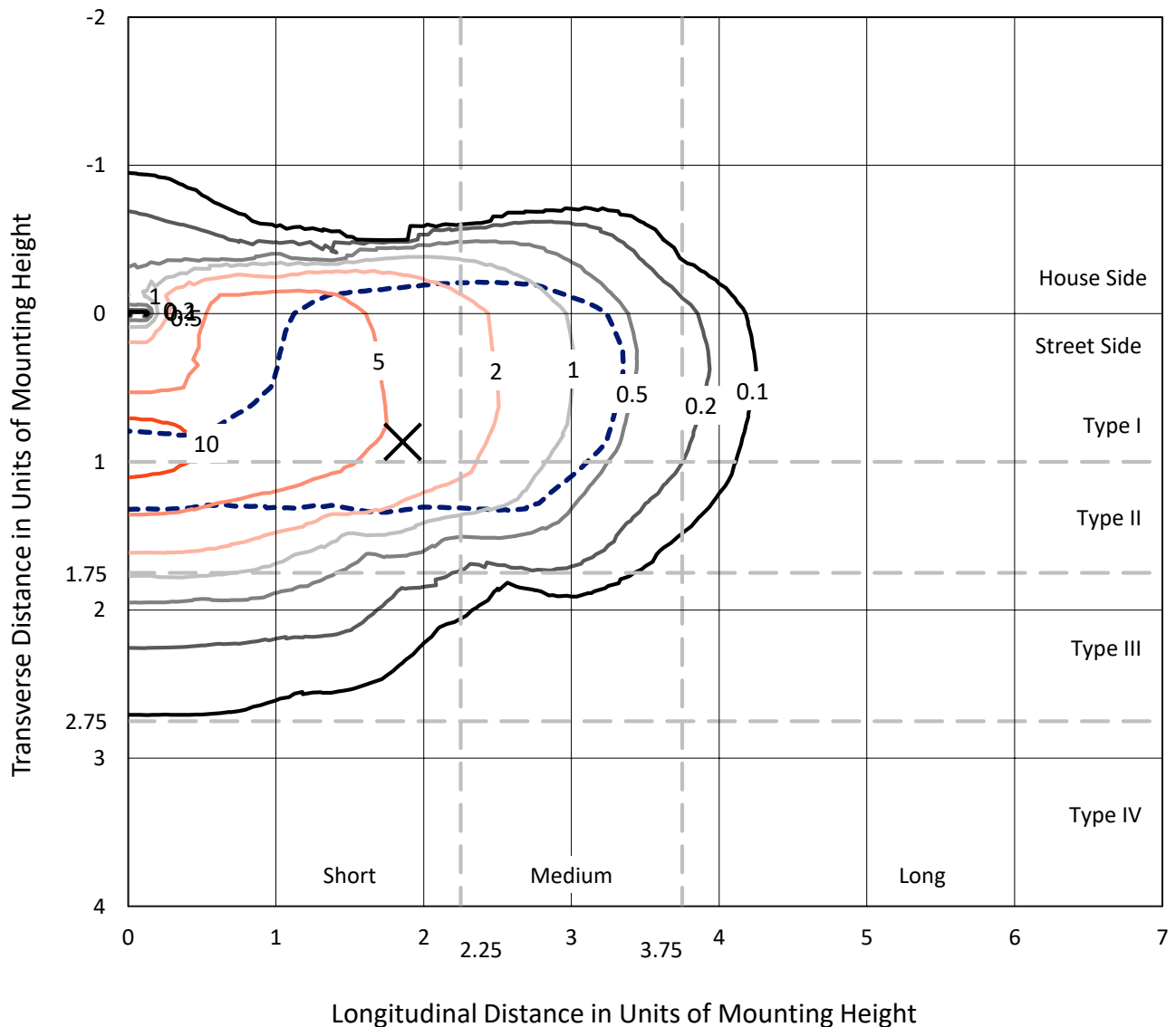


REPORT NUMBER: P254207

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

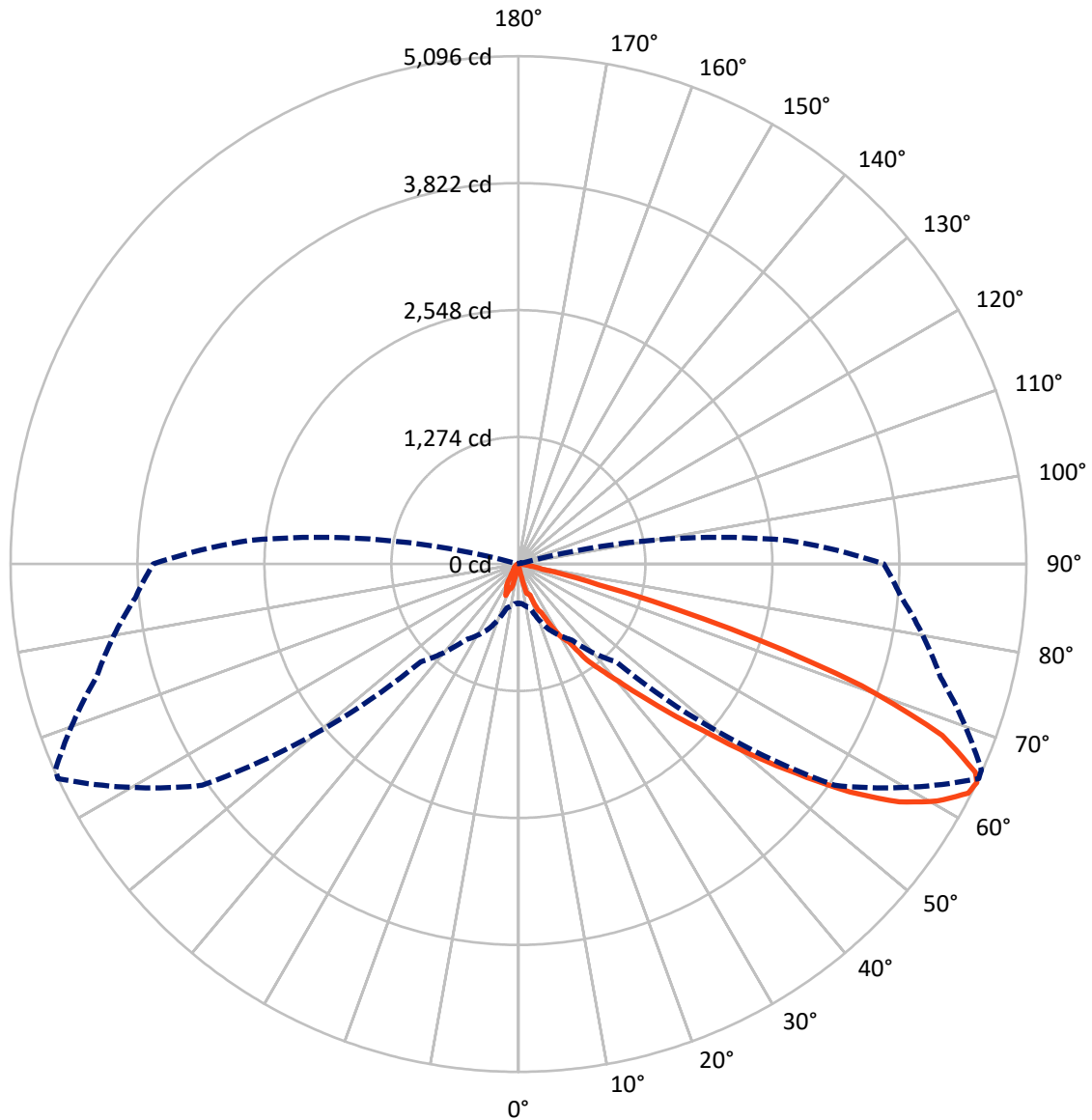


Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P254207

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P254207

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-HSS

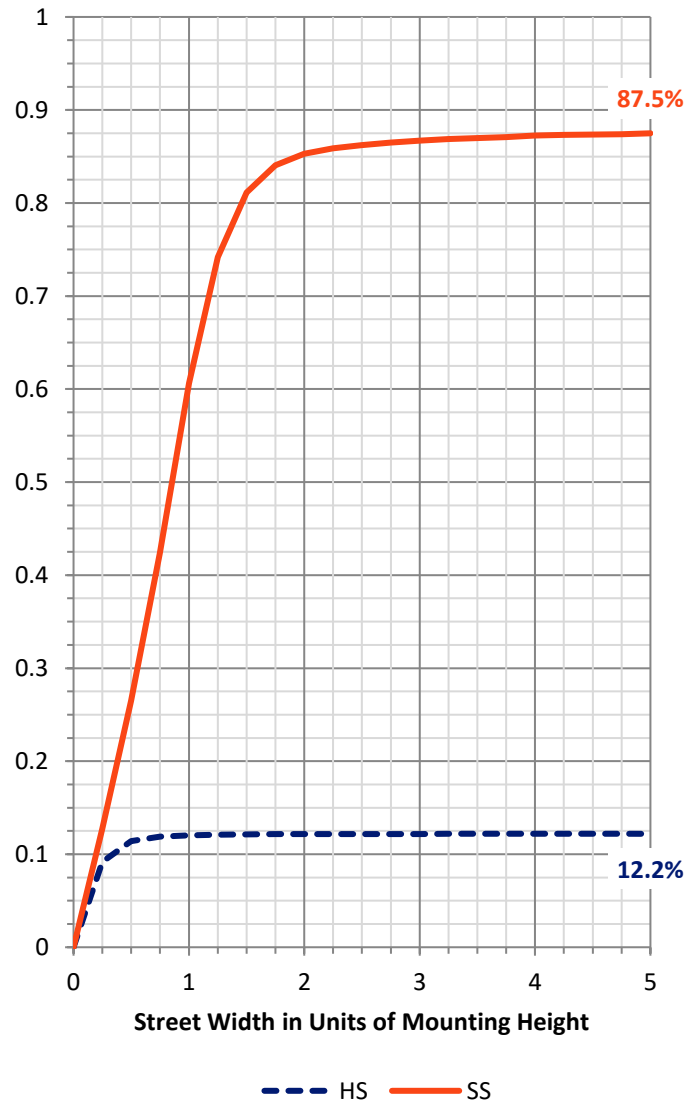
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.0	0.0	633.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4502.2	0.0	4502.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	5135.2	0.0	5135.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.1
10°-20°	51.3	1.0
20°-30°	174.3	3.4
30°-40°	489.0	9.5
40°-50°	1135.5	22.1
50°-60°	1587.1	30.9
60°-70°	1252.0	24.4
70°-80°	419.3	8.2
80°-90°	22.8	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5135.2	100.0
0°-180°	5135.2	100.0

Coefficient of Utilization



REPORT NUMBER: P254207

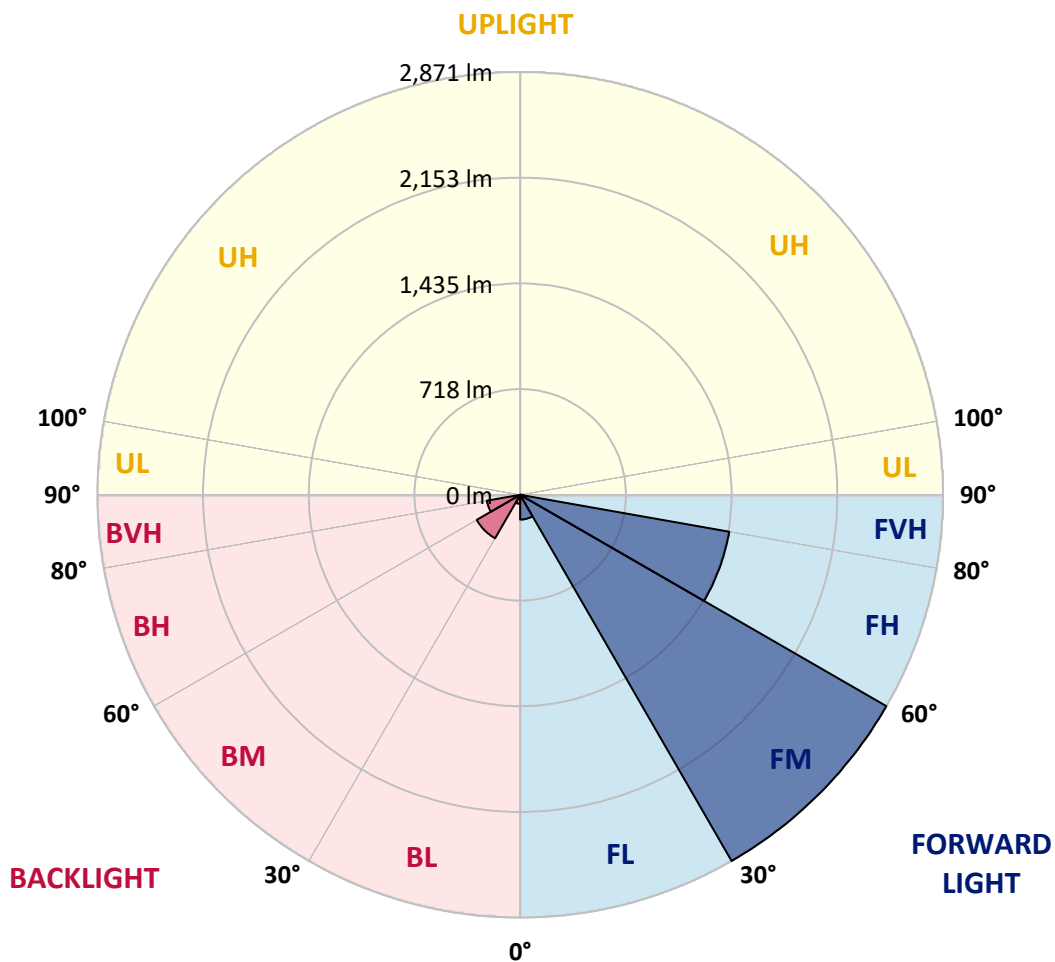
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	168.3	3.3			
FM	(30°-60°)	2870.8	55.9			
FH	(60°-80°)	1441.4	28.1			G1/1800
FVH	(80°-90°)	21.7	0.4			G1/100
BL	(0°-30°)	61.3	1.2	B0/110		
BM	(30°-60°)	340.8	6.6	B1/1000		
BH	(60°-80°)	229.9	4.5	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P254207

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	101.2	42.0	31.7	19.7	6.0	1.7	0.8	0.0	0.0	0.0	0.0
7.5°	145.8	144.8	144.8	146.6	148.3	135.4	10.3	0.8	0.0	0.0	0.0
10°	138.9	138.0	138.0	140.6	143.1	145.8	146.6	5.1	3.5	0.0	0.0
12.5°	277.7	276.0	265.8	158.6	143.1	144.0	147.4	100.2	60.0	22.3	106.3
15°	273.4	272.6	273.4	279.5	279.5	149.1	222.9	300.8	300.0	195.5	228.9
17.5°	280.3	276.0	274.4	278.7	285.5	330.0	326.6	316.3	317.2	207.5	234.9
20°	403.8	404.6	410.6	313.7	295.7	417.5	370.3	332.7	337.8	398.6	432.1
22.5°	410.6	409.8	417.5	432.1	509.2	428.6	496.3	498.9	510.0	522.1	463.8
25°	567.5	566.6	463.8	454.3	544.3	480.9	594.0	540.1	549.5	551.2	568.4
27.5°	642.1	634.3	639.5	642.1	574.4	675.6	615.5	713.2	683.2	755.2	721.0
30°	817.8	793.8	734.7	744.1	710.6	720.1	745.8	852.1	823.8	800.7	787.8
32.5°	1195.8	1181.3	1123.0	926.7	862.3	783.5	905.2	932.7	936.1	1095.6	1092.1
35°	1747.1	1644.2	1438.5	1293.6	1033.0	1023.6	1003.8	1178.7	1187.3	1248.2	1247.3
37.5°	2459.5	2438.9	2146.6	1667.3	1364.7	1200.1	1249.0	1351.9	1319.3	1447.1	1448.8
40°	2893.2	2873.5	2636.9	2223.7	1743.6	1508.8	1449.6	1549.1	1494.2	1715.4	1672.5
42.5°	3206.1	3185.6	3013.2	2629.2	2297.4	2031.7	1765.1	1807.0	1772.0	1970.0	1951.1
45°	3393.0	3363.9	3290.1	2964.4	2752.7	2640.3	2220.3	2128.6	2137.1	2289.7	2269.1
47.5°	3382.7	3338.1	3357.0	3158.2	3137.5	3200.1	2786.9	2493.7	2591.4	2672.9	2619.8
50°	3115.3	3080.1	3186.4	3213.0	3389.5	3641.6	3387.0	2979.9	3102.4	3051.0	2940.4
52.5°	2619.8	2626.6	2780.9	2960.9	3433.3	3945.9	3963.1	3488.2	3654.5	3393.0	3231.8
55°	2095.1	2114.0	2282.8	2500.6	3165.8	4045.4	4444.0	4035.1	4180.0	3675.1	3442.7
57.5°	1540.5	1570.5	1782.2	1967.4	2604.3	3791.7	4681.4	4504.9	4591.4	3917.6	3608.2
60°	913.0	929.2	1210.5	1478.8	1886.8	3039.8	4672.0	4828.0	4857.2	4168.8	3740.2
62.5°	539.2	547.8	642.1	997.9	1243.0	1993.1	4316.2	5063.8	5055.2	4329.1	3831.1
64°	393.5	399.5	457.8	724.4	929.2	1387.9	3870.5	5095.5	5085.2	4383.1	3856.7
65°	329.2	334.3	375.5	571.8	773.2	1061.3	3375.8	5039.0	5032.1	4410.6	3855.1
67.5°	264.0	264.8	276.9	335.2	526.3	557.2	1954.6	4587.1	4566.6	4438.9	3791.7
70°	236.6	240.0	261.5	264.0	384.9	366.0	687.5	3653.6	3609.1	4214.3	3644.2
72.5°	187.7	192.9	227.2	258.9	277.7	274.4	313.7	2228.0	2246.0	3096.4	3054.4
75°	131.1	136.3	171.4	214.3	219.4	200.6	226.3	836.7	825.5	1529.3	1776.3
77.5°	81.4	84.0	107.2	154.3	204.0	132.9	157.7	242.6	259.7	474.0	485.2
80°	54.0	54.8	67.7	102.0	141.5	120.0	94.3	122.5	125.2	149.1	73.8
82.5°	30.0	30.9	42.9	64.3	84.9	106.3	60.9	73.8	78.1	92.6	39.4
85°	10.3	11.2	22.3	36.0	51.5	51.5	39.4	44.6	45.4	58.3	20.6
87.5°	0.0	0.0	5.1	9.4	8.6	3.5	8.6	6.9	6.0	9.4	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P254207

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	108.0	119.2	120.0	121.7
10°	0.0	0.0	0.8	0.8	0.0	114.9	121.7	119.2	113.1	111.4	109.8
12.5°	109.8	105.5	14.5	3.5	96.9	120.0	108.0	92.6	78.1	73.8	70.3
15°	226.3	223.7	199.8	219.4	136.3	102.9	76.3	82.2	69.5	65.2	63.4
17.5°	229.8	226.3	213.5	258.0	212.6	104.5	70.3	56.6	51.5	49.7	48.9
20°	436.4	423.5	310.4	253.8	162.9	106.3	54.0	45.4	42.0	46.3	48.9
22.5°	449.2	434.7	374.6	340.3	136.3	69.5	51.5	49.7	52.3	49.7	49.7
25°	566.6	523.8	411.4	279.5	120.9	61.7	58.3	45.4	42.0	40.3	40.3
27.5°	703.8	671.3	568.4	262.3	81.4	65.2	50.5	39.4	43.7	43.7	43.7
30°	752.7	707.3	574.4	229.8	72.0	59.1	42.9	42.9	38.6	36.8	36.8
32.5°	1081.0	1015.0	737.2	161.1	65.2	49.7	42.9	36.0	35.2	37.7	37.7
35°	1204.4	1127.3	718.4	119.2	57.4	45.4	36.8	35.2	33.5	33.5	33.5
37.5°	1369.0	1278.2	659.2	88.3	54.0	38.6	32.5	30.9	31.7	33.5	34.3
40°	1584.2	1474.5	611.2	72.8	46.3	33.5	29.2	30.0	30.0	30.0	30.0
42.5°	1837.9	1686.2	540.1	65.2	39.4	30.0	26.6	26.6	27.4	27.4	27.4
45°	2129.4	1917.6	440.6	57.4	34.3	25.7	24.0	24.0	24.0	23.1	24.0
47.5°	2438.0	2167.9	334.3	50.5	29.2	23.1	21.5	20.6	20.6	19.7	20.6
50°	2744.9	2401.2	244.3	43.7	25.7	20.6	18.0	18.0	18.0	17.2	17.2
52.5°	2990.1	2558.9	173.2	37.7	22.3	18.0	15.4	14.5	14.5	13.7	13.7
55°	3195.8	2653.2	126.8	31.7	19.7	15.4	12.9	12.0	12.0	11.2	12.0
57.5°	3354.5	2712.4	96.1	25.7	17.2	12.9	10.3	9.4	9.4	9.4	9.4
60°	3488.2	2732.1	73.8	21.5	14.5	10.3	8.6	7.7	7.7	6.9	7.7
62.5°	3612.4	2726.9	60.9	18.8	12.9	8.6	6.9	6.0	5.1	4.3	5.1
64°	3665.6	2713.2	54.8	16.3	12.0	7.7	6.0	5.1	4.3	2.6	3.5
65°	3687.9	2691.8	50.5	14.5	11.2	6.9	6.0	5.1	2.6	1.7	2.6
67.5°	3669.0	2581.2	39.4	12.9	8.6	5.1	4.3	3.5	0.8	0.8	1.7
70°	3459.0	2346.3	30.0	11.2	7.7	4.3	3.5	2.6	1.7	0.8	1.7
72.5°	2716.7	1687.1	23.1	8.6	6.0	2.6	3.5	2.6	1.7	0.8	0.0
75°	1457.3	633.5	17.2	6.9	5.1	2.6	2.6	1.7	0.8	0.8	0.0
77.5°	375.5	199.8	12.0	4.3	4.3	1.7	1.7	1.7	0.8	0.8	0.0
80°	58.3	28.3	5.1	3.5	2.6	0.8	1.7	0.8	0.8	1.7	0.0
82.5°	24.0	11.2	3.5	2.6	2.6	0.0	1.7	0.8	0.8	0.8	0.0
85°	6.0	4.3	2.6	1.7	1.7	0.0	0.8	0.0	0.8	0.8	0.0
87.5°	0.8	1.7	1.7	1.7	1.7	0.0	0.8	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)